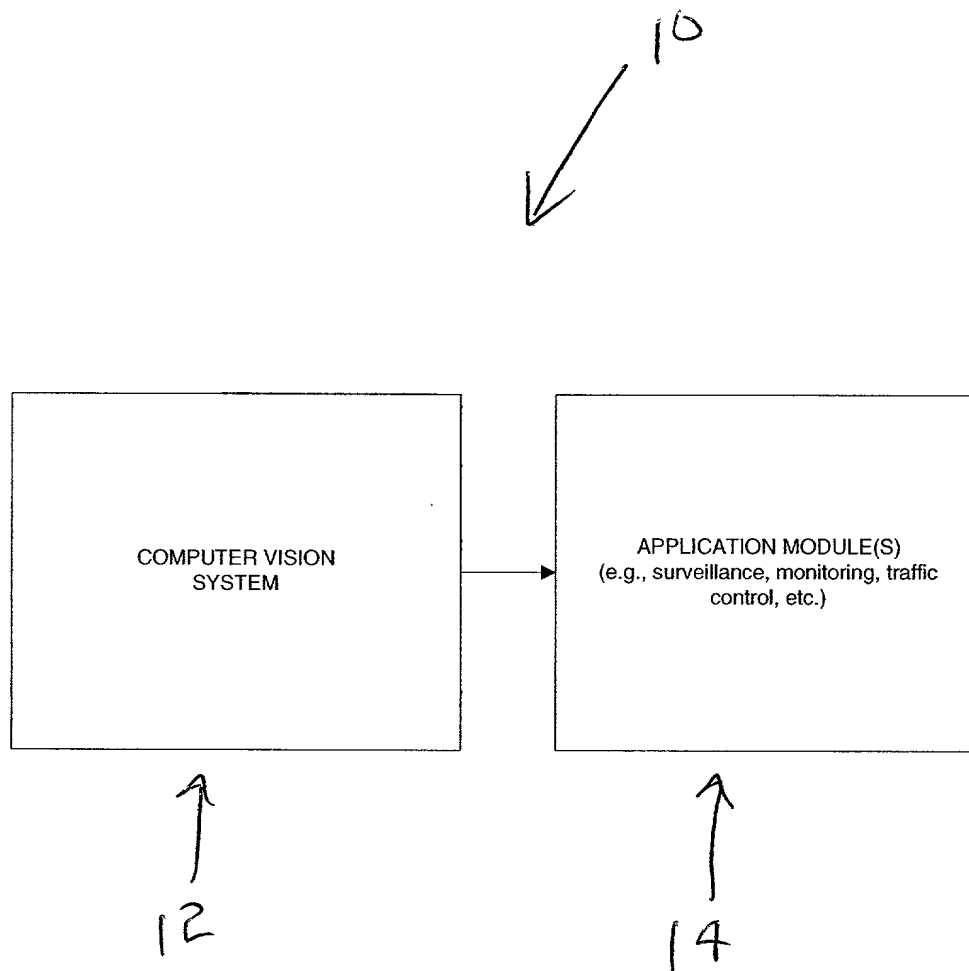


FIG. 1



20

FIG. 2

22

31

42

44

24

COMPUTER  
APPARATUS

Computer  
Vision  
MODULE

Feature  
Assembly

Labeled Cases

Cluster Analysis

Model  
Development

On-line  
Threat Classifier

Off-line

Model

Development

On-line  
Threat Classifier

48

58

59

57

60

32

46

59

57

60

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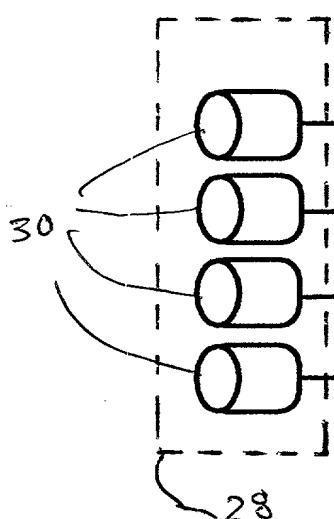


FIG. 3

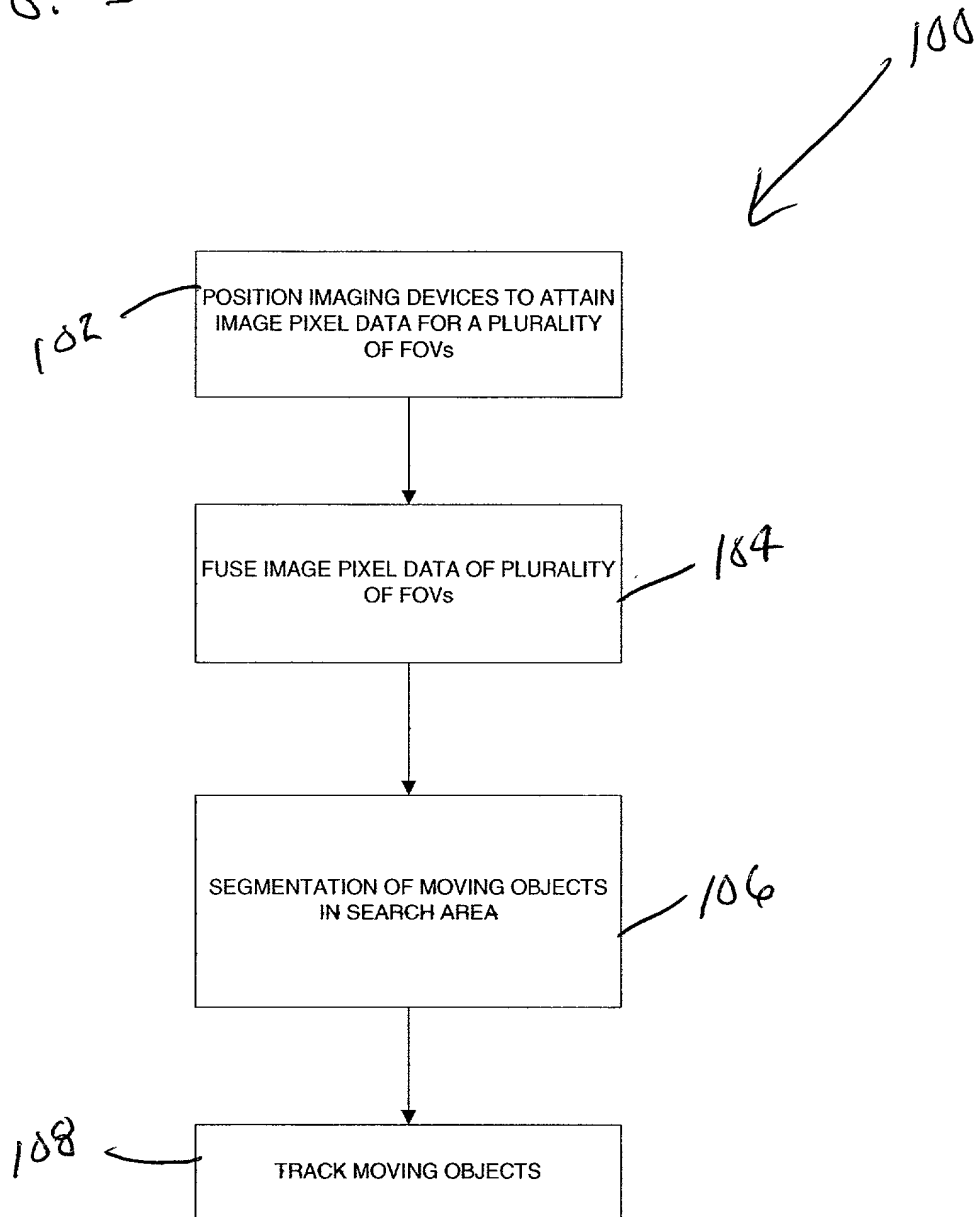


FIG. 4

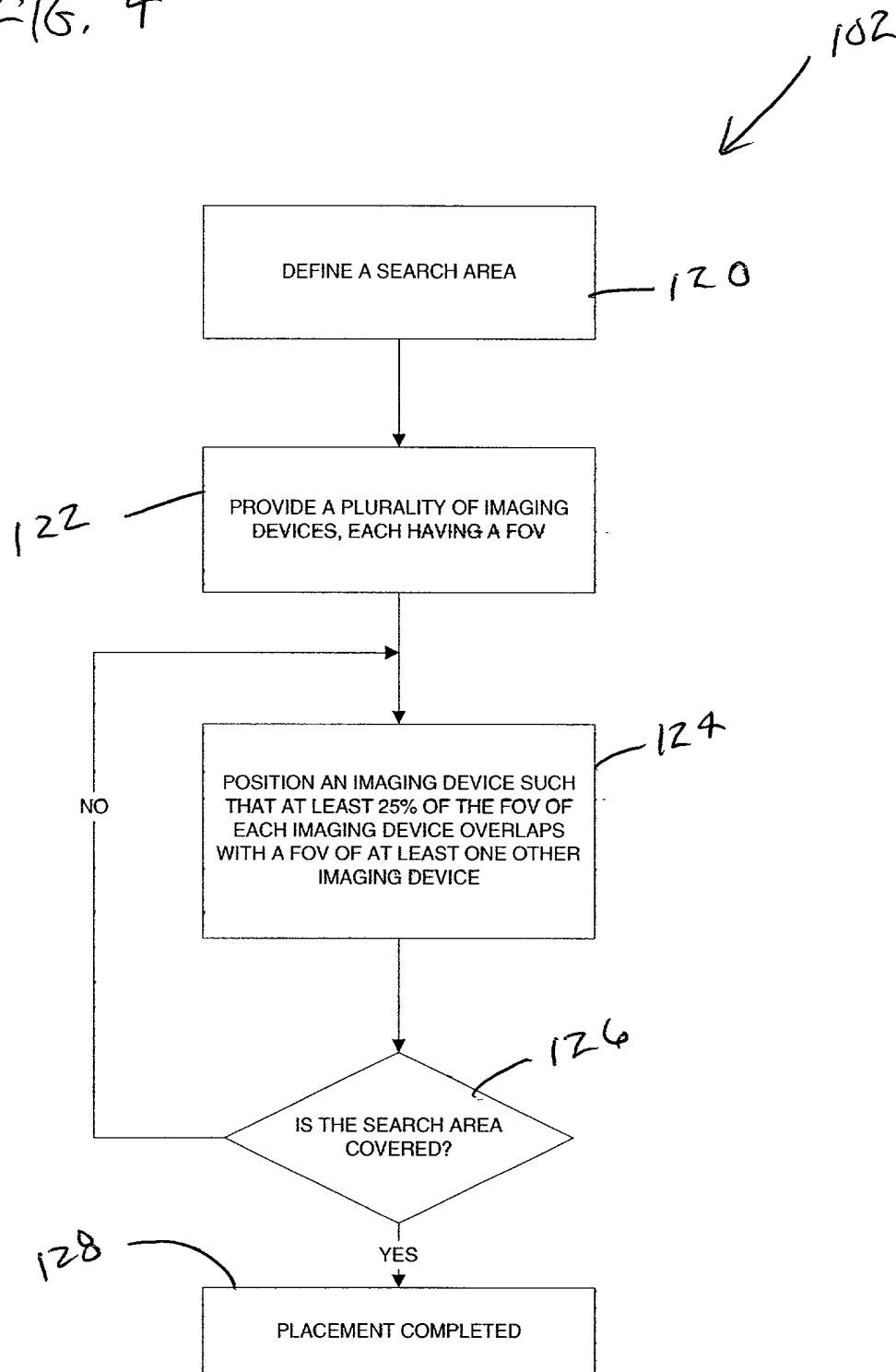


FIG. 5

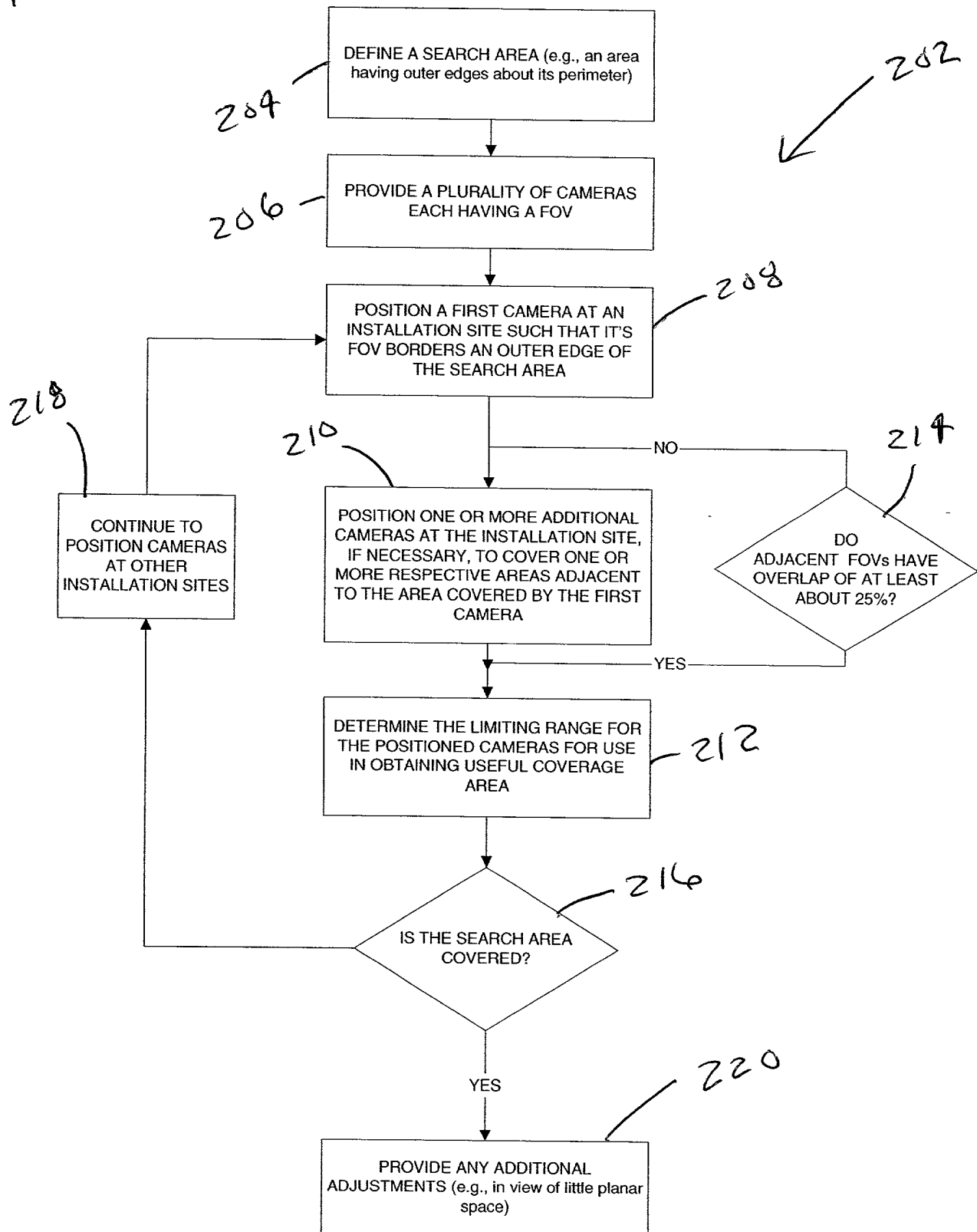


FIG. 6

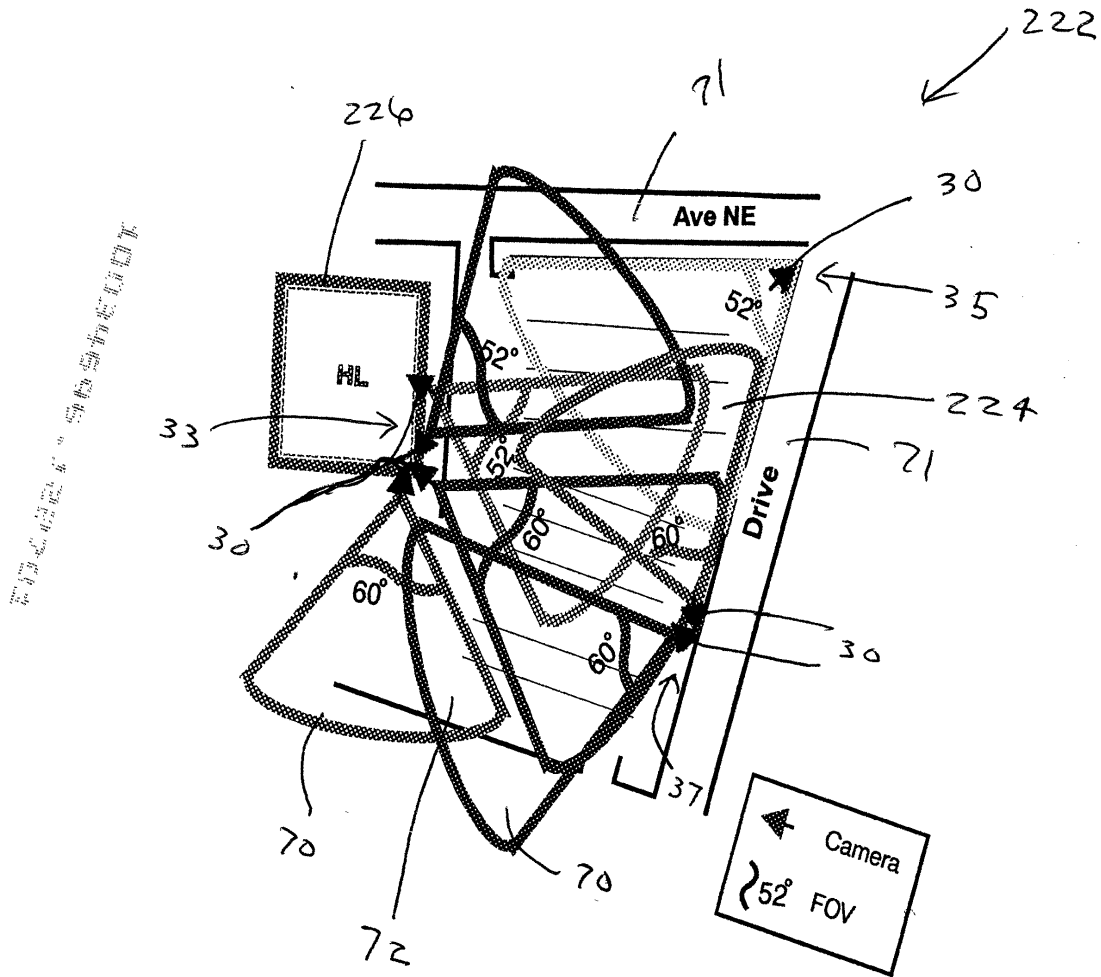


FIG. 7

104

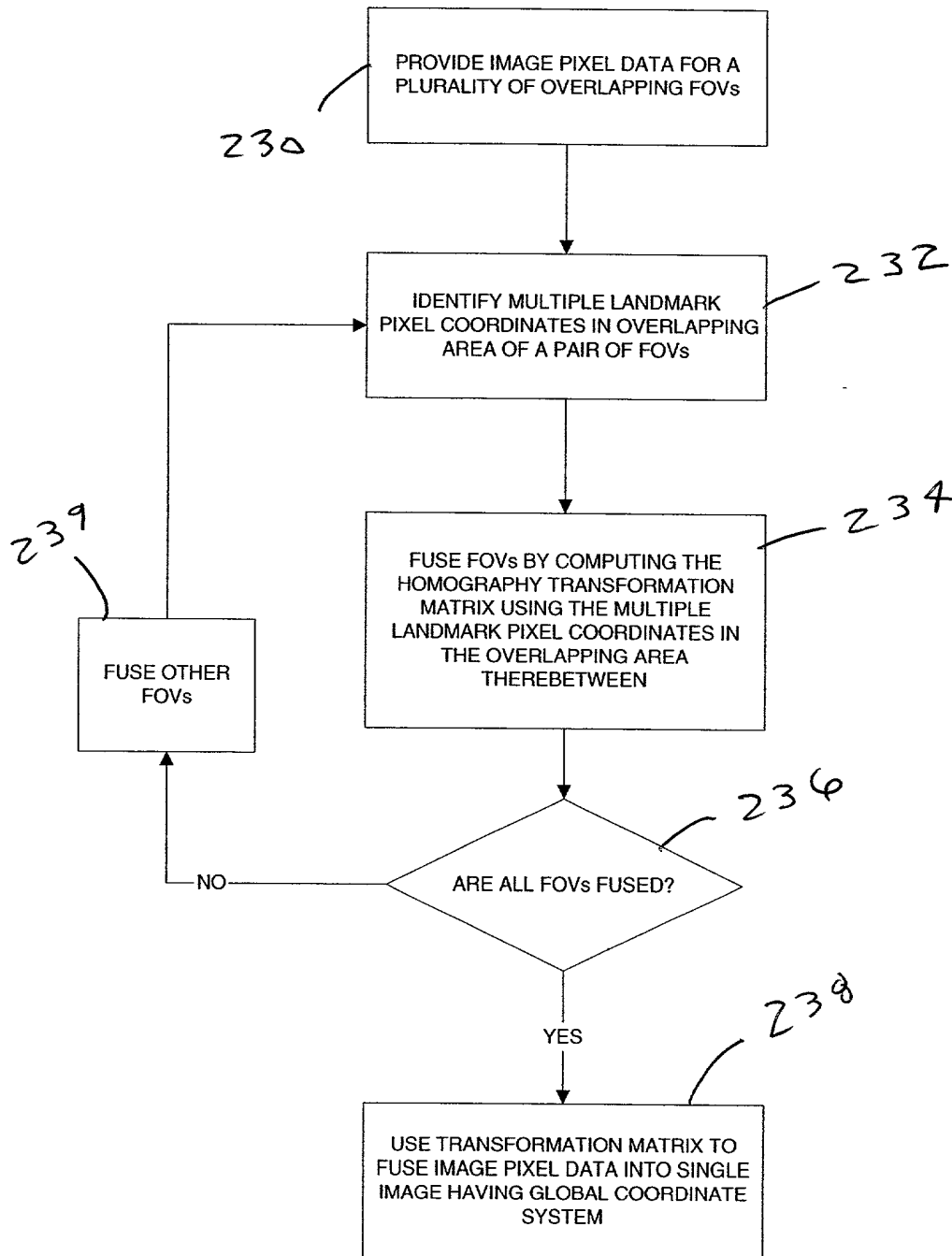
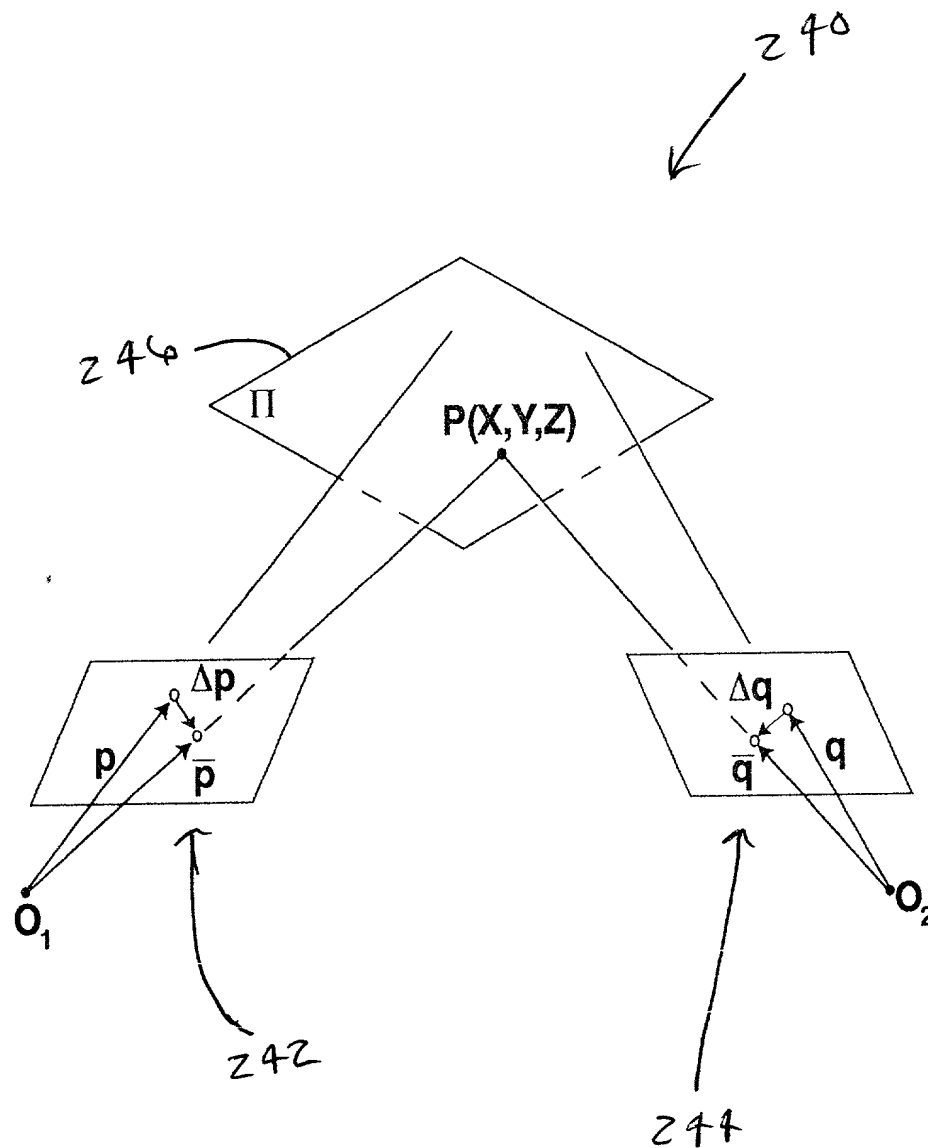


FIG. 8



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FIG. 9

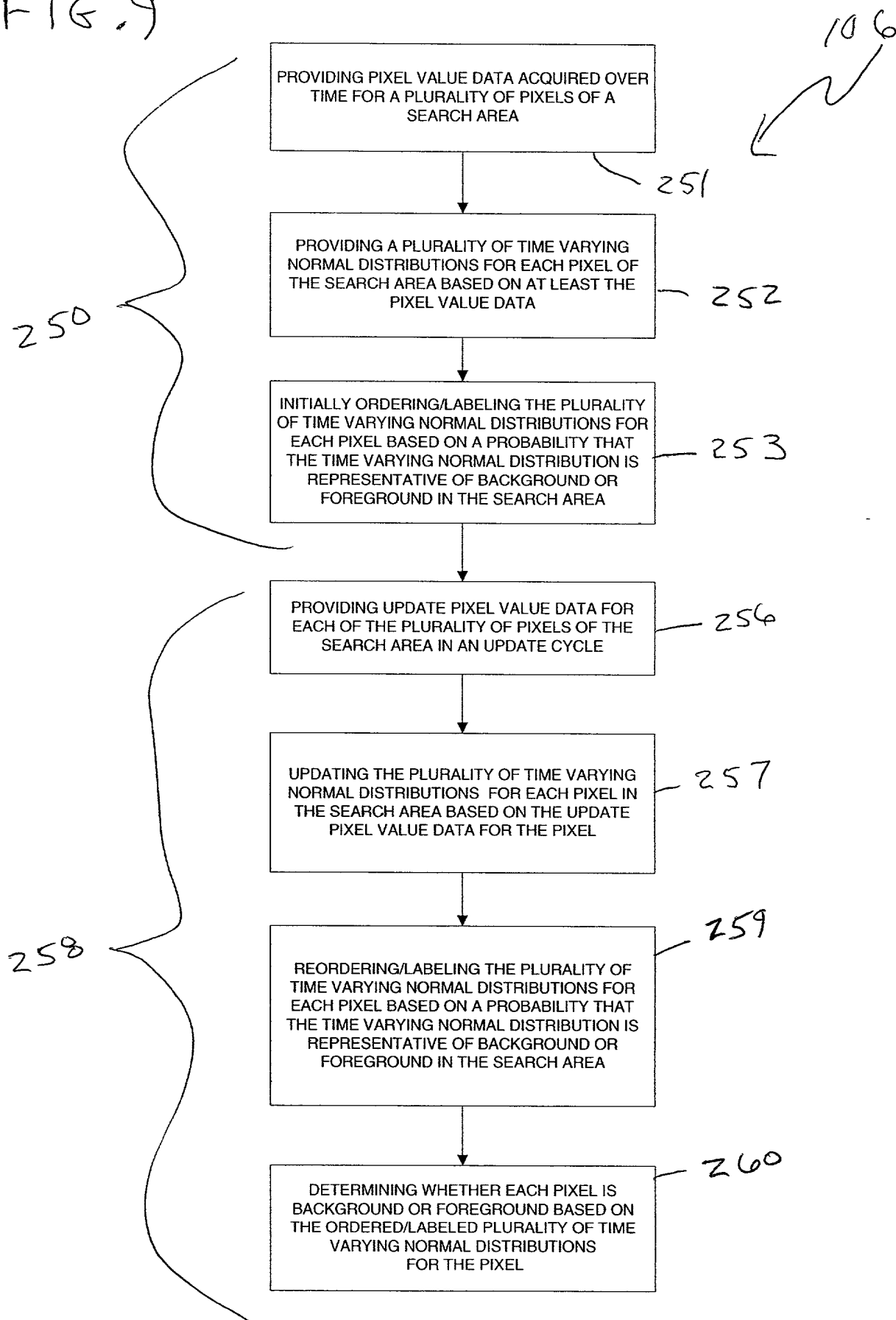


FIG. 10

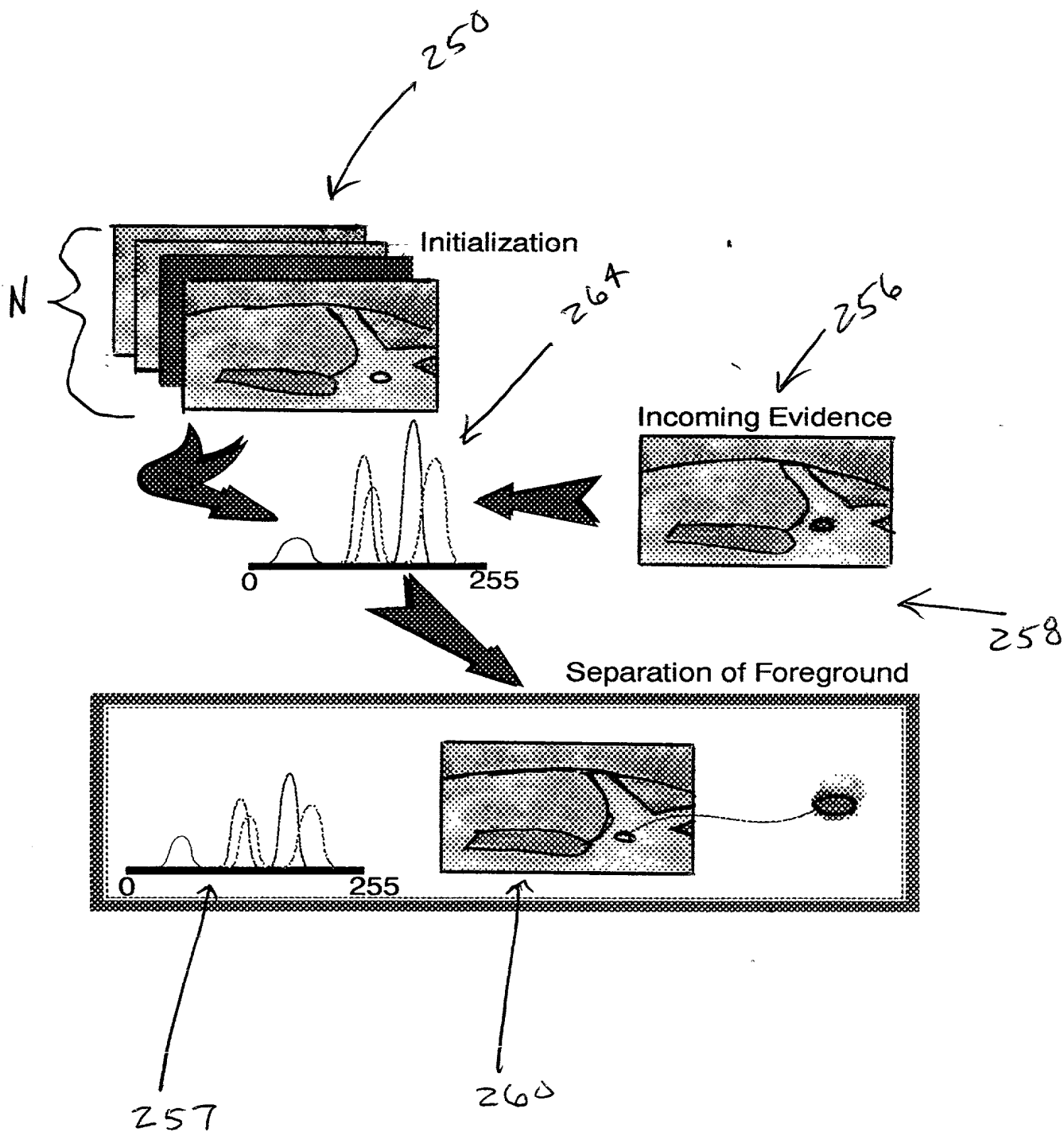


FIG. 11

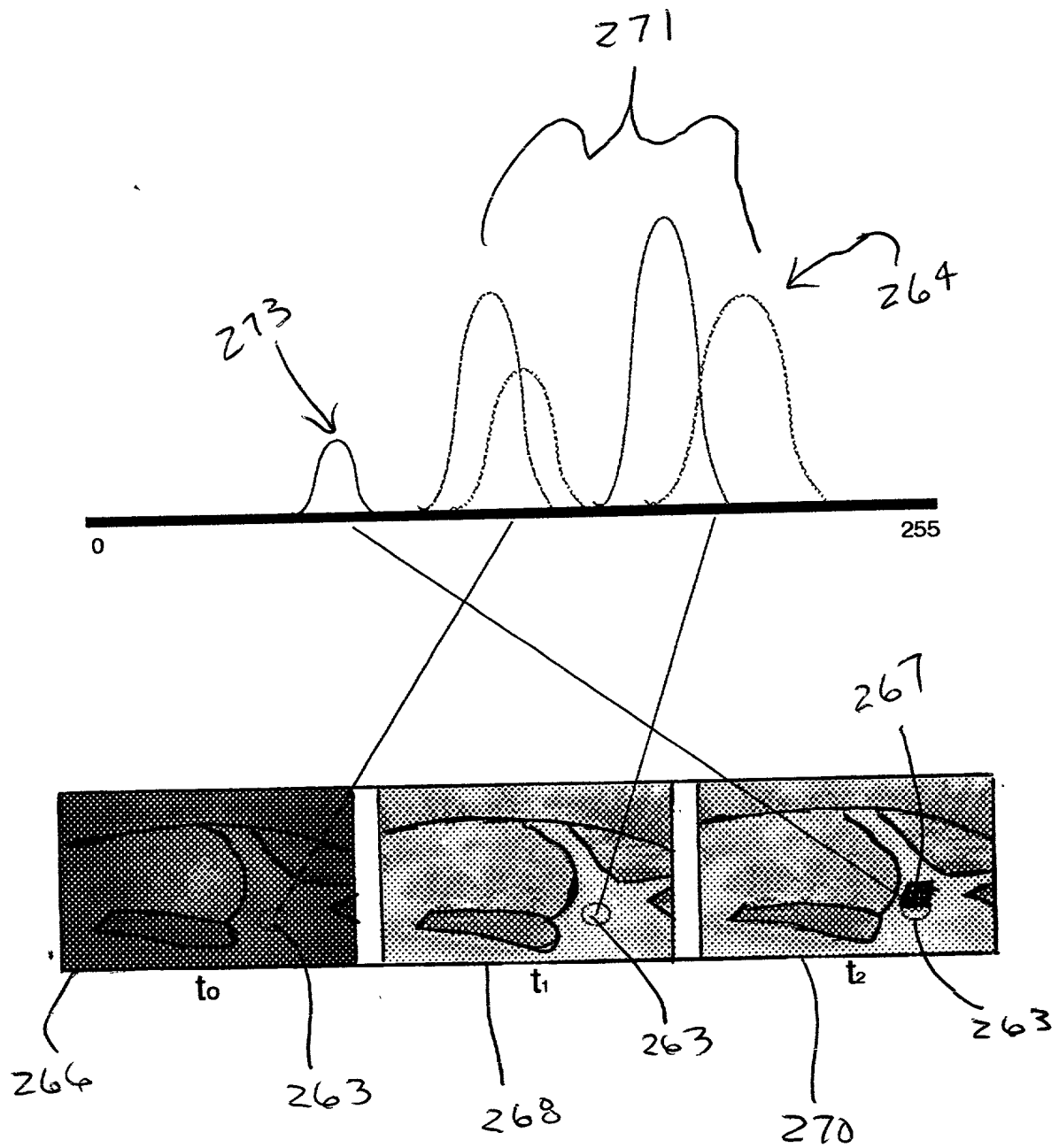


FIG. 12A

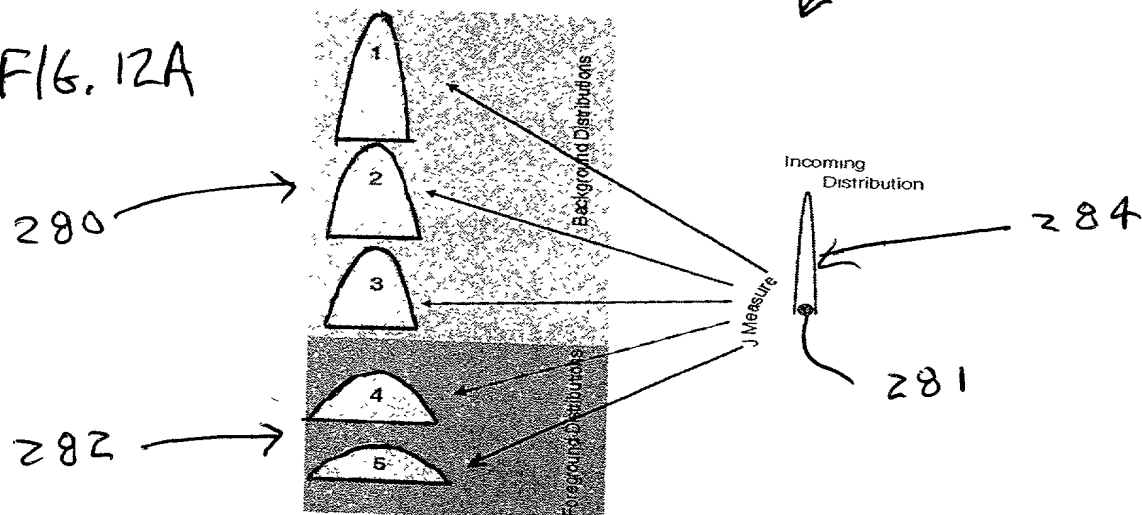
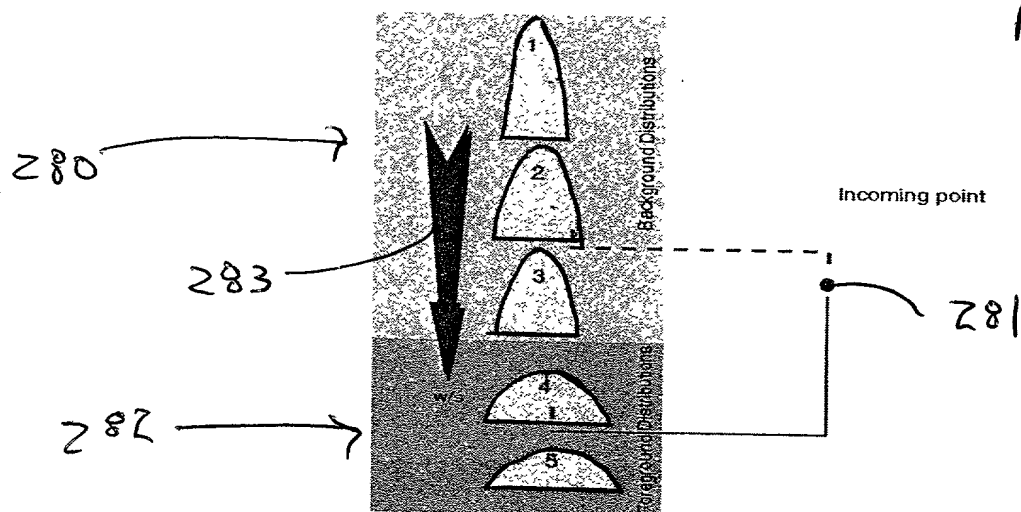
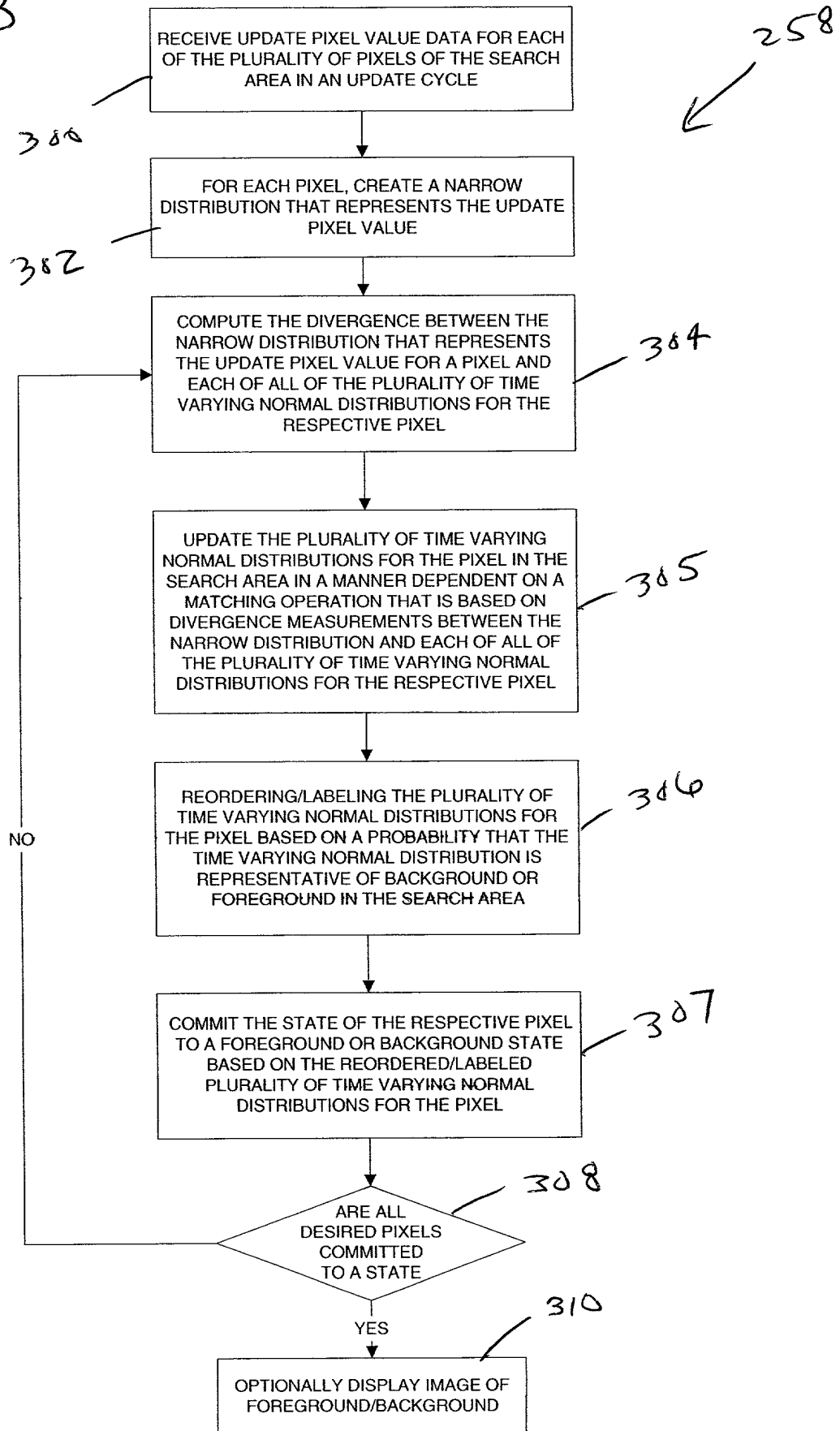


FIG. 12B



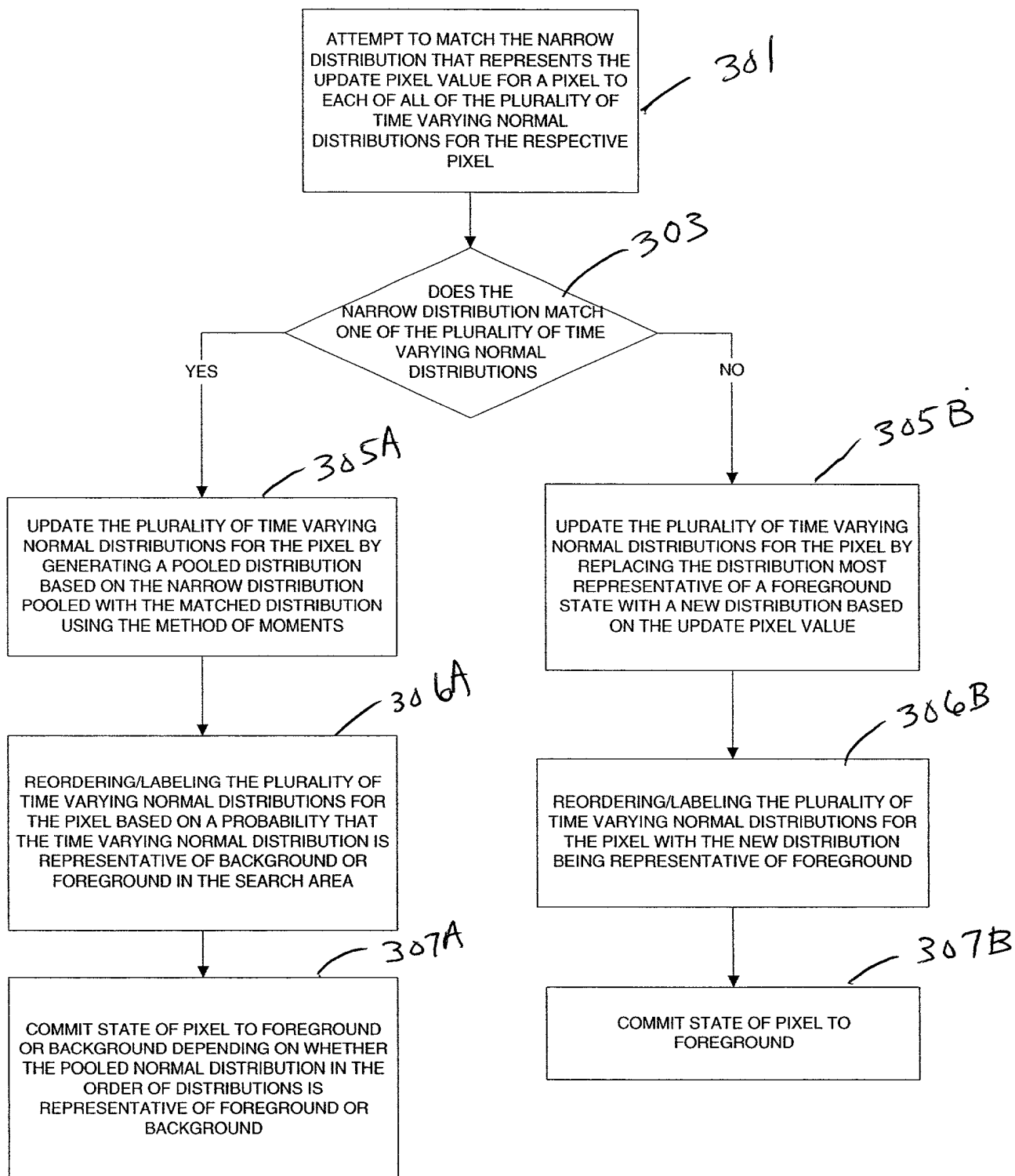
1003465-12901

FIG. 13



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FIG. 14



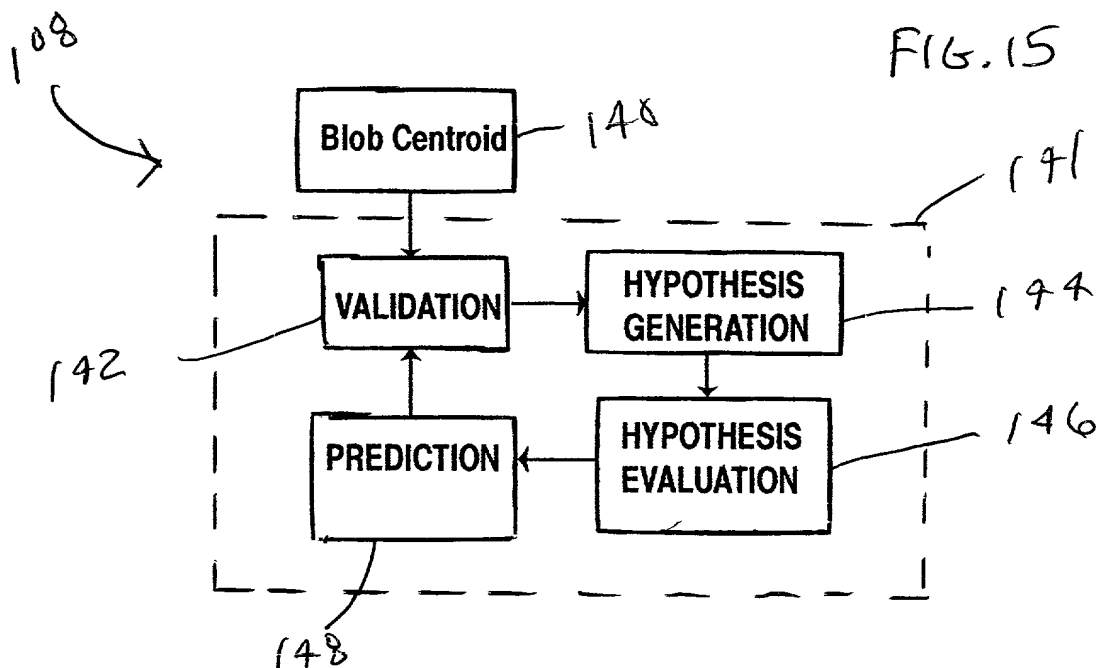


FIG. 16

Hypothesis	$z_1(1)$	$z_2(1)$	$z_1(2)$	Track No.
$H_1$	0	0	-	0
$H_2$	1	0	-	1
$H_3$	0	2	-	2
$H_4$	1	2	-	1,2
$H_5$	1	0	3(1)	3
$H_6$	1	2	3(1)	2,3
$H_7$	0	2	4(2)	4
$H_8$	1	2	4(2)	1,4
$H_9$	0	0	5	5
$H_{10}$	1	0	5	1,5
$H_{11}$	0	2	5	2,5
$H_{12}$	1	2	5	1,2,5

← 150

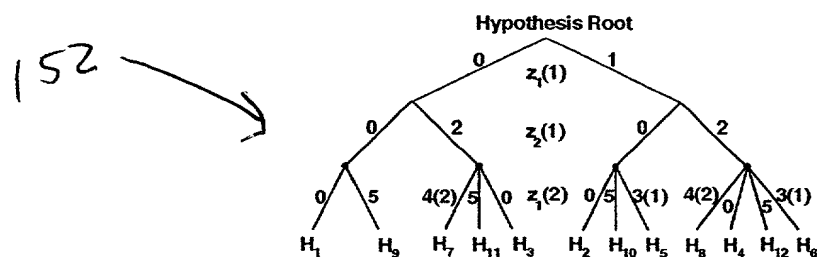
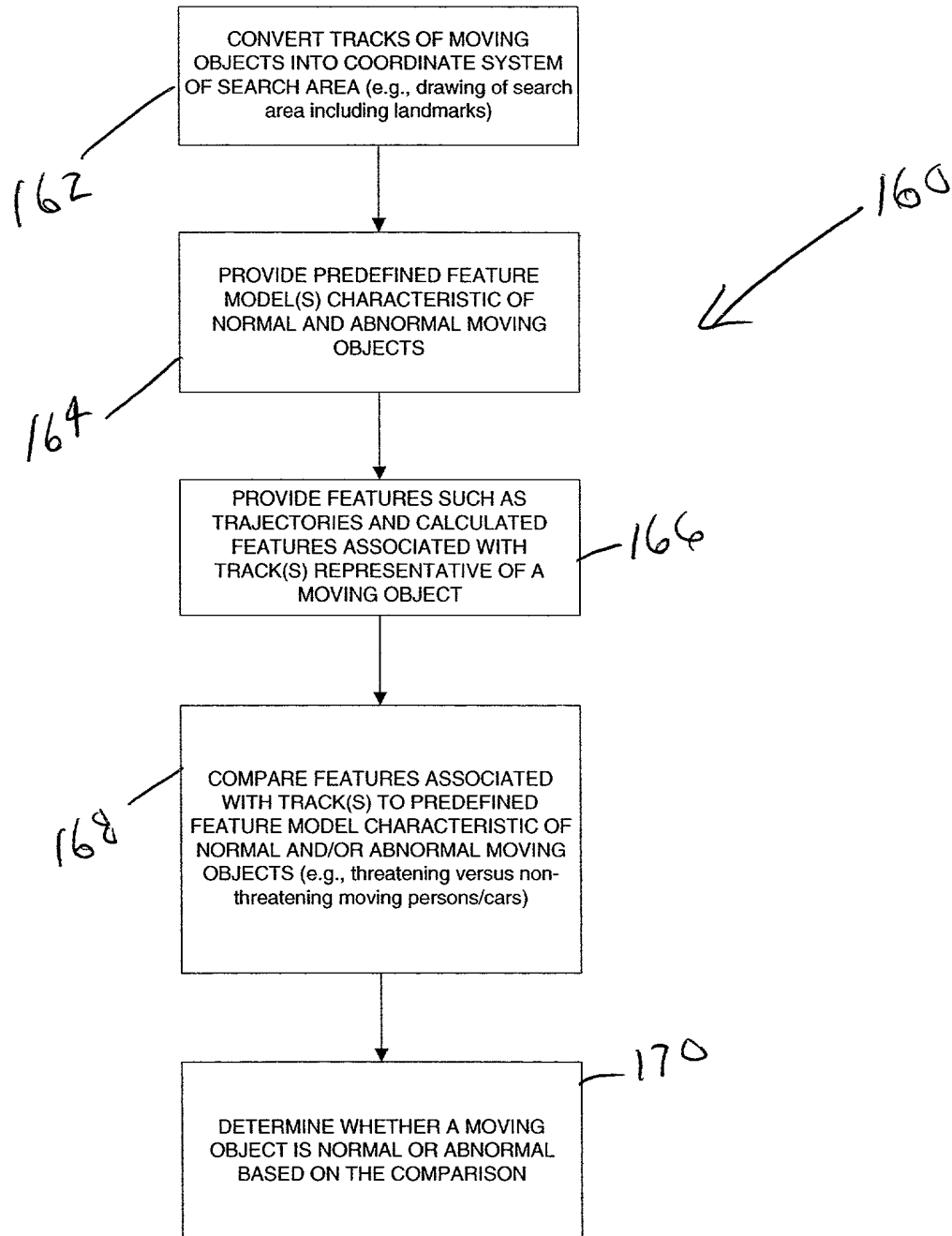


FIG. 18



1003469-13704



FIG. 19

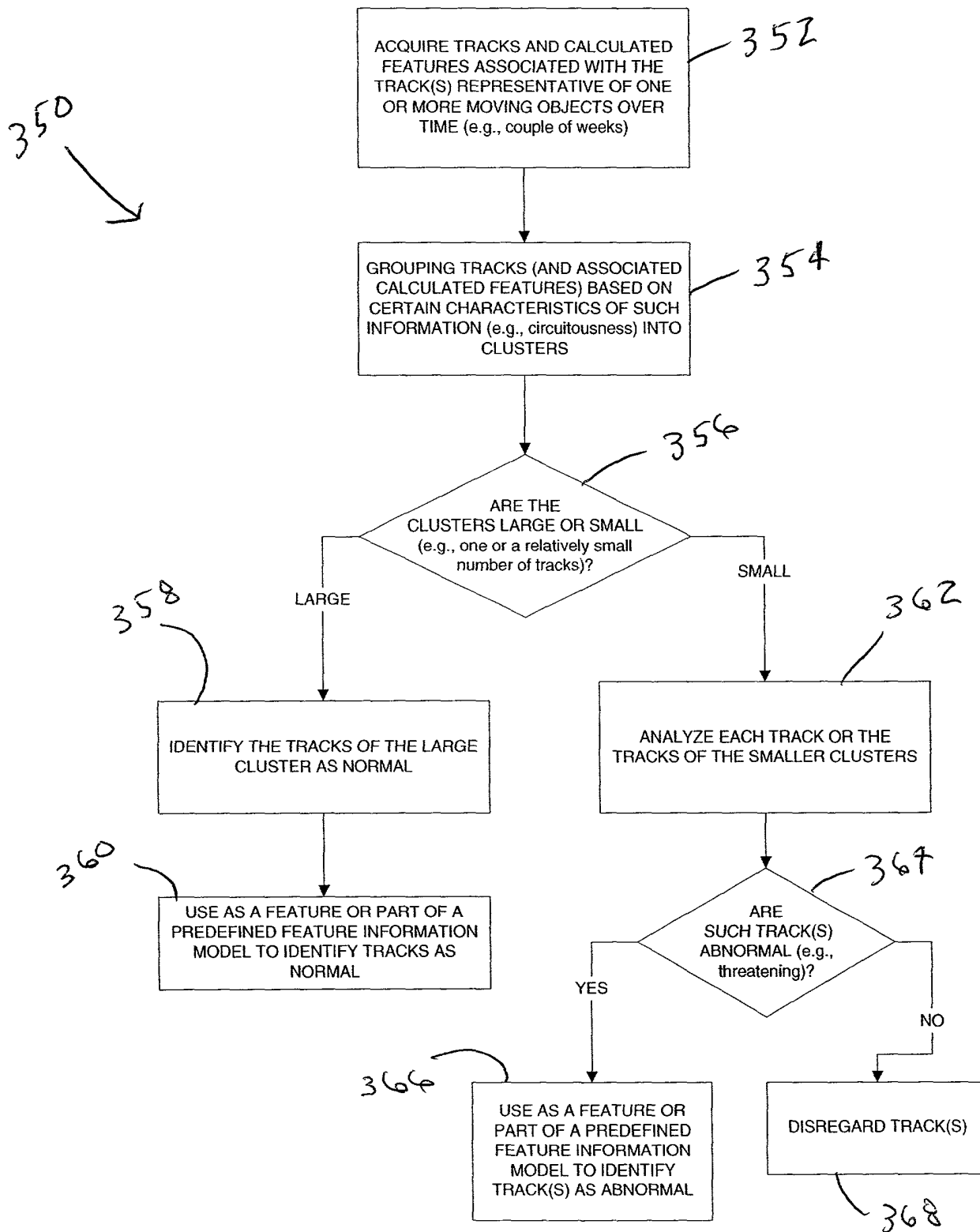


FIG. 20A

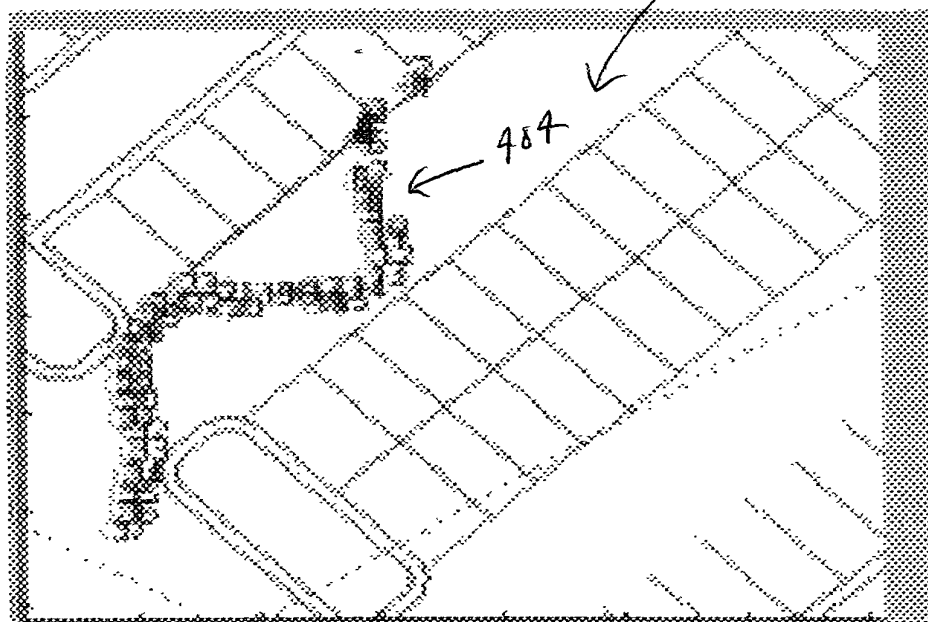
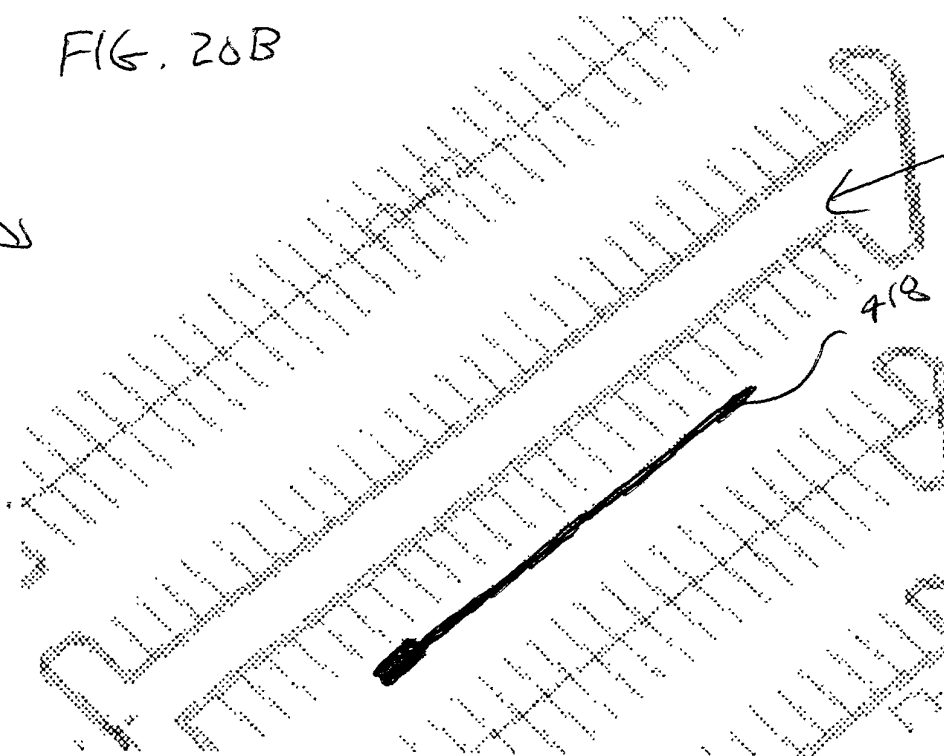


FIG. 20B

410



412

418

10034696-122701